## CLAIMS

1. Method of dewatering sludge, comprising

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- addition of a basic agent to sludge having a pH equal to or less than 8,
- addition to the sludge of at least one flocculating 10 organic component,
  - by the addition of the above mentioned basic agent, an increase in pH of the sludge to a value less than a pH as from which degradation of the said at least one organic component takes place,
    - flocculation of the sludge, and
- separation of the flocculated sludge between dewatered sludge and a liquid phase,

characterised in that the above mentioned basic agent is a calcaro-magnesian compound complying with the formula

$$xCaCO_3.(1-x)[yMg(OH)_2 + (1-y)MgO],$$

in which

x and y are molar fractions

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$$0.45 \le x \le 0.75$$
, and

$$0 \le y \le 1$$
,

and in that the treated sludge has, until after the said separation, the said value lower than a pH as from which

degradation of the said at least one organic component takes place.

- 2. Method according to claim 1, characterised in that the calcaro-magnesian compound is a half-burnt dolomite, comprising an MgO component, possibly partially or totally in the form of Mg(OH)<sub>2</sub>.
- Method according to one or other of claims 1 and 2,
   characterised in that it comprises the said increase in pH to a value of no more than 10.
- Method according to one of claims 1 to 3, characterised in that the addition of the calcaro magnesian compound takes place prior to, simultaneously with and/or after the addition of the said at least one flocculating organic compound.
- 5. Method according to claim 4, characterised in that
  the addition of the calcaro-magnesian compound takes
  place before the above mentioned separation step.
- 6. Method according to any one of claims 1 to 5,characterised in that it comprises, after the saidseparation, an incineration of the dewatered sludge.

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- 7. Method according to any one of claims 1 to 6, characterised in that, in the case of acid sludge, it also comprises a prior neutralisation of this acid sludge so that it has a pH of at least 6.
  - 8. Method according to any one of claims 2 to 7, characterised in that it the half-burnt dolomite issues from a burning of double calcium and magnesium carbonate under conditions such that it has a CaO content of less

than 5% by weight and an  $MgCO_3$  content of less than 10% by weight.

- 9. Use of a calcaro-magnesian compound complying with the formula  $xCaCO_3$ . $(1-x)[yMg(OH)_2 + (1-y)MgO]$ , in which x and y are molar fractions,  $0.45 \le x \le 0.75$ , and  $0 \le y \le 1$ , for the treatment and dewatering of sludge having a pH equal to or less than 8.
- 10 10. Dewatered sludge, comprising a calcaro-magnesian compound content complying with the formula  $x \text{CaCO}_3.\,(1-x)\,[y\text{Mg}\,(\text{OH})_2\,+\,(1-y)\,\text{MgO}]\,, \text{ in which } x \text{ and } y \text{ are } \\ \text{molar fractions, } 0.45 \leq x \leq 0.75, \text{ and } 0 \leq y \leq 1, \text{ and } \\ \text{having a pH greater than 8 and equal to or less than 10.}$

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11. Dewatered sludge according to claim 10, comprising at least 15% by weight of the calcaro-magnesian compound with respect to the dry matter of the sludge before dewatering.